


MODEL ROUTE

School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3825						
Program Title:	Heating, Refrigeration and Air Conditioning Technician	Credential:	<input type="checkbox"/> Certificate <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Degree <input checked="" type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma						
Program Delivery Mode:	<input type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 2 Semesters <input type="checkbox"/> 3 Semesters <input checked="" type="checkbox"/> 4 Semesters <input type="checkbox"/> 6 Semesters <input type="checkbox"/> 8 Semesters						
Campus:	Progress Campus								
Intake:	Fall 2022/Winter 2023								
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours
Semester 1	Fall 2022/Winter 2023								
HRAC-111	Acts, Regulations and Procedures		2	4			6	14	84
HRAC-112	Fundamentals of Cooling Cycles		2	2			4	14	56
HRAC-113	Mechanical Cooling Cycle		2	2			4	14	56
HRAC-124	Pipe Joining & Installation for Cooling		2	2			4	14	56
MATH-101	Mathematics 1		0	4			4	14	56
COMM-160/161	College Communication 1		0	3			3	14	42
								Total	350
Semester 2	Winter 2023/Summer 2023								
HRAC-121	Electrical Fundamentals	MATH-101	2	2			4	14	56
HRAC-122	Mechanical Drawing & Prints		2	3		ODL	5	14	70
HRAC-123	Heating Fundamentals	HRAC-111	3	3			6	14	84
COMM-170/171	College Communication 2	COMM-160/161	0	3			3	14	42
GNED	General Education Elective		0	3			3	14	42
GNED-500	Global Citizenship: From Social Analysis to Social Action 		0	3		ODL, BLD, HYB	3	14	42
								Total	336
Break (Summer 2023)									
Semester 3	Fall 2023								
HRAC-211	Psychrometrics - Control		3	2			5	14	70
HRAC-212	System Design & Installation	HRAC-122	3	3			6	14	84
HRAC-213	Electrical & Control Systems	HRAC-121	3	2			5	14	70
MATH-216	Mathematics for HRAC	MATH 101	0	4			4	14	56
AMEG212	Applied Ethics in Technology and the Environment		0	2		ODL	2	14	28
								Total	308
Semester 4	Winter 2024								
HRAC-221	Capstone Project	HRAC-211, 212, 213	3	1			4	14	56
HRAC-222	Heating Hydronic Fundamentals	HRAC-123	2	2			4	14	56
HRAC-223	Air Conditioning & Distribution Systems	HRAC-212, 122	2	4			6	14	84
HRAC-224	Advanced Electrical and Control Systems	HRAC-213, MATH-216	3	3			6	14	84
GNED	General Education Elective		0	3			3	14	42
								Total	322
Total Program Hours:									1316
C = Co-Requisite; P = Pre-Requisite									

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Notes: ♦ This course may be offered in one of the following modalities (Online, Hybrid or Blended) Overall GPA 2.0 required for graduation Courses highlighted in Red (HRAC111, HRAC124, HRAC121, HRAC123) are required to qualify for Gas 3 Test. You must achieve above 75% in all lab component to qualify for G3 practical exams. Gas Technician 3 and 2 Testing takes place outside of regularly scheduled classes. (ie Engagement Week, Weekend, between semesters)									

Signature: Clarence Cheung
School Dean/Chair

24-Mar-22
Revised Date